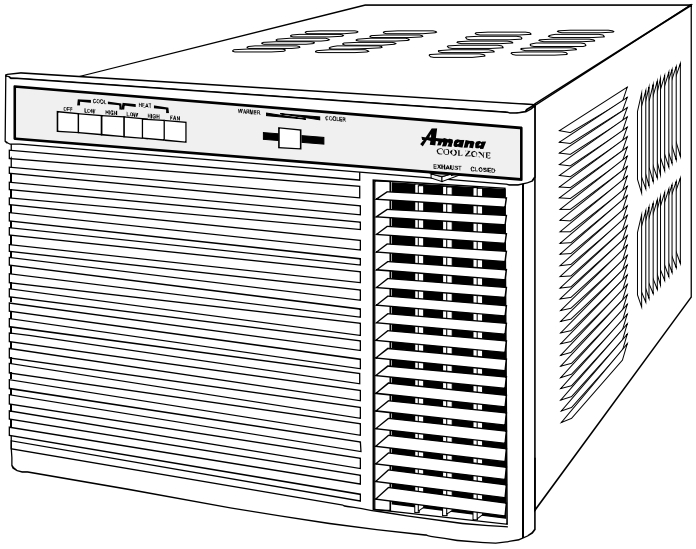
Cool Zone/Comfort Zone Room Air Conditioner and Heat Pump

Use And Care Manual



As an ENERGY STAR® partner, AMANA APPLIANCES has determined that model 25M33PB meets the ENERGY STAR® guidelines for energy efficiency.

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I. Description

This room air conditioner cools, dehumidifies and filters the air inside your home. Heat pump and electric heat models provide heating in addition to cooling.

Sections I through VII of this manual provide general operating instructions, installation instructions, and maintenance instructions for your room air conditioner. These general instructions apply to all models. Sections VIII provides control operation information for each model. After reading Sections I through VII, turn to Section VIII and find the control layout that matches your specific room air conditioner model. Read the information on this page carefully.

Important: It is important, both for your personal safety and to avoid possible damage to your appliance or your home, that you observe the safety instructions that are given following this symbol.

RECOGNIZE THIS SYMBOL

AS A SAFETY PRECAUTION

December 1999

⚠ WARNING

HIGH TEMPERATURE STRESS HAZARD

This room air conditioner is not meant to provide unattended cooling or life support for persons or animals that are unable to react to failure of the product.
The failure of an unattended air conditioner may result in extreme heat in the conditioned space causing overheating or death of persons or animals.
Precautions must be taken to ward off or guard against such an occurrence.

II. Unpacking

Unpack and visually inspect the unit. Report any damage to the delivering carrier immediately. Remove and discard all packing material. On some models the air conditioner front and/or mounting kit hardware may be packed separately.

Record the model, serial and manufacturing numbers of your unit in the space provided below. This information is found on a nameplate visible after the front of the air conditioner has been removed. The rated voltage, amperage and capacity for your specific model can also be found on this nameplate. Read the warranty packaged with the unit. Keep the warranty and a copy of your sales receipt for future reference. You may also want to record in the space provided the date purchased and the selling dealer.

OWNER'S PRODUCT IDENTIFICATION

MODEL NUMBER

SERIAL NUMBER

MANUFACTURING NUMBER

Owner's Name

Address

City State Zip

/ /

Date of Purchase

Authorized Dealer

Address

City State Zip

( )

Phone Number

III. Electrical Requirements

ELECTRICAL GROUNDING INSTRUCTIONS

This appliance is equipped with a three-prong grounding plug for protection against possible shock hazards. If a two-prong wall receptacle is encountered, the customer is required to contact a qualified electrician and have the two-prong wall receptacle replaced with a properly grounded three-prong wall receptacle in accordance with the National Electrical Code.

Room air conditioners are designed to operate according to requirements on the nameplate and as shown in Table 1. Fuse or circuit breaker ratings must be according to the fuse instruction label and as shown in Table 1. Do not plug models marked "Use on Single Outlet Circuit Only" into a circuit with another appliance or light fixture.

⚠ WARNING

To avoid death, personal injury or property damage due to electrical shock, this unit must be grounded. Do not under any circumstances cut or remove the round grounding prong from the plug. Do not use a two-prong adapter.

⚠ WARNING

To avoid death, personal injury or property damage due to electrical shock, do not use an extension cord. Do not pinch the power cord. Do not remove the warning tag from the power cord.

Unit Plug Type	Receptacle Required	Circuit Rating, Breaker or Time Delay Fuse	Voltage Rating On Unit Nameplate
NEMA No. 5-15P	NEMA No. 5-15R	125V-15AMP	115V
NEMA No. 6-15P	NEMA No. 6-15R	250V-15AMP	230/208V rated at 12 amperes or less
NEMA No. 6-20P	NEMA No. 6-20R	250V-20AMP	230/208V rated over 12 amperes but not more than 16 amperes
NEMA No. 6-30P	NEMA No. 6-30R	250V-30AMP	230/208V rated at 24 amperes or less

Table 1

IV. Installation

Complete step-by-step installation instructions are furnished with your unit. These instructions will be found on a separate page included with this manual or in the mounting kit assembly. Follow these instructions carefully. Keep these instructions with this manual for future reference. Your unit will be one of the following three designs:

- *Unit with a window mounting kit*

These models are designed for mounting though an opening in a wall. These units can be adapted to window installation by using the optional window mounting kit supplied with your unit.

- *Unit without a window mounting kit*

No window mounting kit is supplied with the unit. These models are designed for mounting through an opening in a wall. These units can be adapted to window installation by purchasing an optional window mounting kit. Consult your dealer to choose the kit that is appropriate for your model and installation.

- *Unit with a separate sleeve*

Some Builder models are designed such that the outer case and the chassis can be purchased separately. Through-the-wall installation instructions are included with the outer case. These models can be adapted to window installation by purchasing an optional mounting kit.

V. Room Heat Pumps

Heat pumps work by moving heat instead of creating it. In the summer, the cool indoor coil absorbs heat from your room and moves it outdoors, providing cooling. In the winter, heat pumps reverse this operation. By lowering the temperature of the outdoor coil below the outdoor temperature, the heat pump absorbs the heat from outdoors and moves it inside your house. This heat transferring process is very efficient. For example, at 45°F outdoor temperature, a heat pump can provide 2 ½ watts of heat for every watt of electricity it consumes.

As outdoor temperatures drop, the heating capacity and efficiency of the heat pump declines. At temperatures below 45°F, it is likely that ice will form on the outdoor coil. Heat pump units are designed to operate as a heat pump above approximately 40°F. Below 40°F, these units switch automatically from reverse cycle heat pump to auxiliary electric heating. No defrost is required. There is no minimum operating temperature.

VI. Normal Care and Maintenance

⚠ WARNING

To reduce the risk of electric shock, personal injury, or death, turn the fan control to the off position and remove the unit plug from the wall outlet before doing any inspection or maintenance work.

ANNUAL INSPECTION

It is suggested that your unit be inspected by your dealer or servicer once a year. It is advisable to have the outer case removed and the unit thoroughly cleaned.

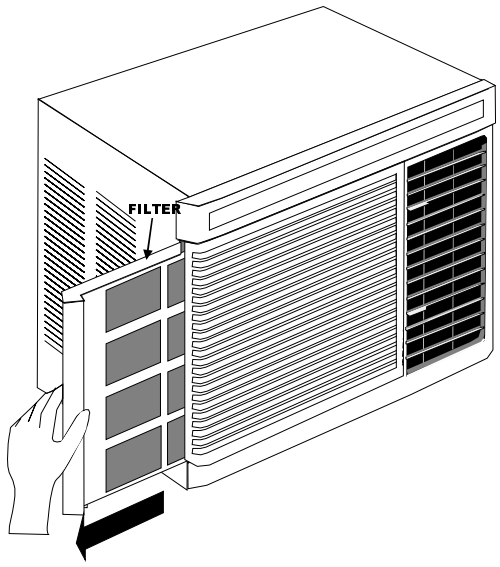
Note: *The life of your unit may be greatly reduced if you live in a salt air or other corrosive type environment. Under these conditions the unit should be removed from its case and completely cleaned at least once a year. At that time any scratches or blisters on the painted surfaces should be sanded and repainted. Placing an algaecide tablet in the outdoor side of the unit's base pan is suggested in humid areas where algae formation is common. Amana recommends the following algaecide cleaners:* ***PanGuard®*** *by Control Released Technologies, Inc. and* ***CDC Anti-Clog®*** *by Virginia KMP.*

FRONT GRILLE AND FILTER REMOVAL

The front contains a removable grille that provides easy access to the air filter. To clean the filter use one of the following methods for filter removal:

METHOD ONE:

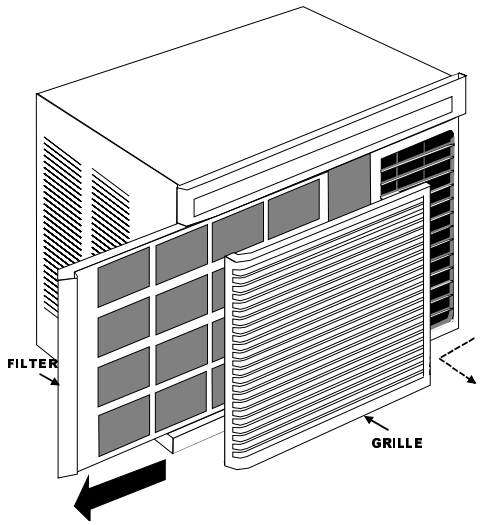
Grasp the filter handle and slide the filter out of the unit.



METHOD TWO:

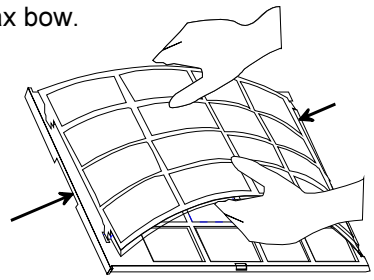
1. Remove the front grille.

   Slide the grille to the left until it clears the unit clips and pull out.
2. Grasp the filter handle and slide the filter out of the unit.



OPTIONAL CHARCOAL AIR FILTER INSTALLATION

Remove charcoal air filter from plastic bag. Insert the three tabs on the right side of the filter into the three slots on the frame. Carefully bow the middle of the filter until the two tabs on the filter can be inserted into the two slots on the filter frame. Relax bow.



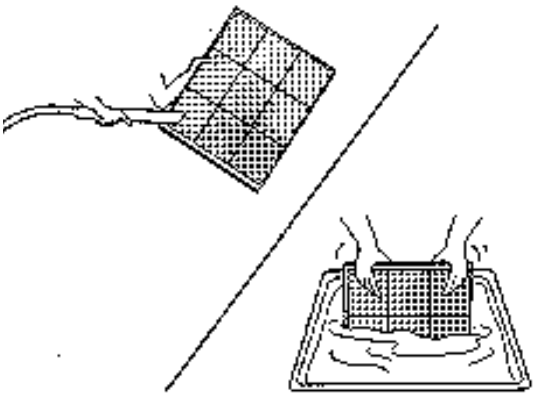
Reinstall air filter and grille by reversing removal.

FRONT GRILLE AND CABINET CLEANING

The grille and complete cabinet may be cleaned with warm water and mild soap or detergent. Cleaning or polishing compounds are not recommended, as they may damage plastic surfaces

AIR FILTER CLEANING

A dirty air filter reduces the operating efficiency of your unit. The filter should be inspected at least once every week during operation. It can be cleaned with a vacuum cleaner or washed in warm water and mild detergent. The filter should be thoroughly dried before it is replaced. Do not operate the unit without a filter.



FAN MOTOR

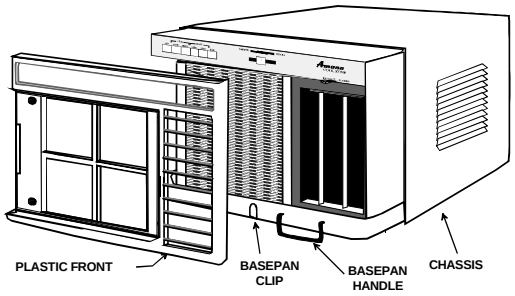
The fan motor is permanently lubricated for long life. There is no need to oil the motor.

REMOVING A SLIDE-OUT CHASSIS FROM THE OUTER CASE

⚠ WARNING

To reduce the risk of electric shock, personal injury, or death, turn the fan control to the off position and remove the unit plug from the wall outlet before doing any inspection or maintenance work.

1. Remove front grille by sliding grille to the left and pulling out.
2. Remove air filter by sliding it to the left.
3. Remove the four screws holding the plastic front to the unit and remove front.
4. Remove the screw holding the basepan clip to the chassis. It is located on the front lip of the basepan.



⚠ CAUTION

To reduce the risk of personal injury be sure to have sufficient help when moving your unit. A room air conditioner can weigh between 70 and 240 pounds.

5. Using the basepan handle, pull slowly and evenly straight out of the chassis until approxiamtely 9-12 inches extend from the outercase. Using both hands grasp the unit basepan and pull the remaining chassis from the outercase.

VII. General Operating Instructions

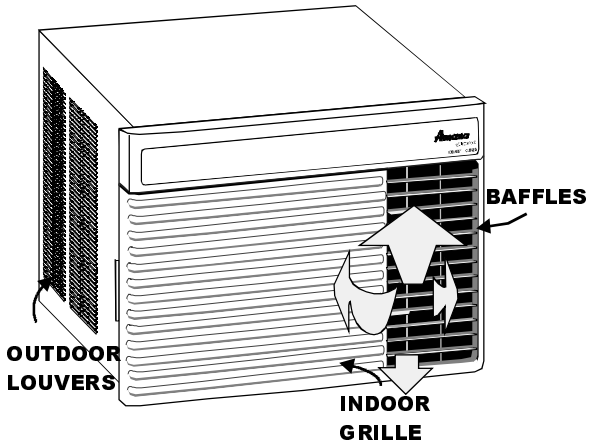
The operation and control of all units are very similar; however, they do vary slightly from model to model. Section VIII shows the control panel of the unit you have purchased and gives detailed information on the operation of the controls.

INITIAL START UP/COOLING

Select the highest fan speed and set temperature control to its coldest position. When the desired temperature is reached, slowly move the temperature control toward a warmer setting until the compressor shuts off. The thermostat will then cycle the compressor on and off to maintain this selected temperature. Adjust the fan speed for desired air circulation.

CHANGING AIR FLOW DIRECTION BAFFLES

All units are equipped with airflow baffles that allow you to divert the air from a center flow to the left or right. The units also have tilting louvers that provide upward and downward air discharge. Adjust baffles and tilting louvers for desired air flow pattern.



AIR FLOW AROUND THE UNIT

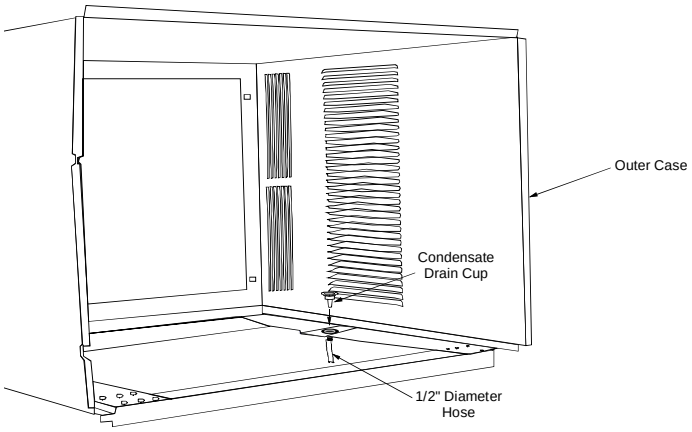
Check the indoor grille and outdoor louvers for obstructions to airflow. Do not block the airflow to and from the unit. If air is obstructed and/or deflected back into the unit, the air conditioner's compressor may cycle on and off rapidly. This could damage your unit.

Drain Cup Installation and Usage

Your air conditioner uses a system where the water removed from the indoor air (condensate) is channeled to the outdoor side of the unit. The outdoor fan blade has a "slinger" ring attached to it that dips into the water and slings the water onto the outdoor coil surface. This is the sound of water you hear during normal operation. The water quickly evaporates on this warm surface and improves the efficiency of your air conditioner. In normal conditions the unit can evaporate the water as fast as it is removed from the indoor air.

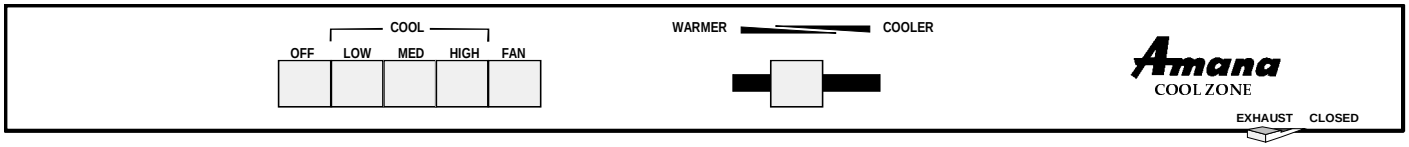
However, in very humid conditions excess amounts of water may drip off the unit chassis. If this proves to be a problem, install the condensate drain cup included with the unit to route excess water where it would not be a problem (see illustration below).

To install, remove the unit chassis from the outer case. Insert the condensate drain cup through the recessed ½" hole on the right side bottom flange of the outer case. Once inserted, place a ½" diameter hose or tube on the drain cup bottom spout. The hose allows you to route where you want the excess water to go. Reinsert the unit chassis into the outer case. The unit basepan overflow hole will be positioned directly above the drain cup and will catch any water that might run out.



VIII. Controls

COOL ZONE MODELS



Fan Control
OFF – Completely shuts off the unit. To prevent blowing fuses, wait two minutes after turning the unit off before turning it on again.

LOW COOL – Filters and circulates room air with the fan running continuously on low speed. Also cools and dehumidifies while the compressor is running. Select this setting for quiet cooling operation.

MEDIUM COOL – Filters and circulates room air with the fan running continuously on medium speed. Also cools and dehumidifies while the compressor is running.

HIGH COOL – Filters and circulates room air with the fan running continuously on high speed. Also cools and dehumidifies while the compressor is running. Select this setting for maximum air circulation and cooling effect.

FAN ONLY– Select this setting for circulating or exhausting room air without cooling.

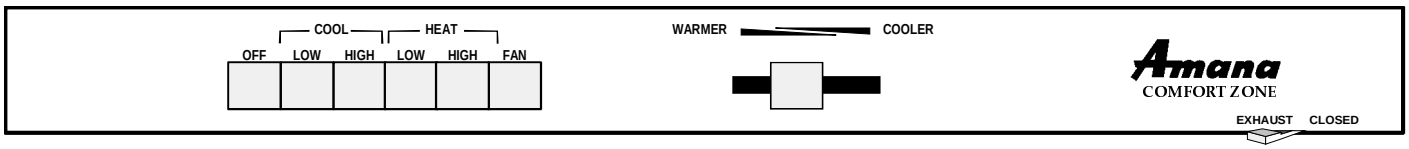
Temperature Control
Slide this control to the left for a warmer room temperature, to the right for a cooler room temperature.

Vent Control
Choose one of the following two settings by sliding the vent control under the appropriate marking:

EXHAUST – Exhausts room air to the outdoors. Also circulates and filters room air. This position can be used to exhaust stale or smoky air. To conserve energy, it is advised that the Fan Control be in the Fan Only setting when using this feature.

CLOSED – Exhaust damper is closed. Unit circulates and filters room air. This position should be used for normal cooling operation.

COMFORT ZONE AND HEAT PUMP MODELS



Fan Control
OFF – Completely shuts off the unit. To prevent blowing fuses, wait two minutes after turning the unit off before turning it on again.

LOW COOL – Filters and circulates room air with the fan running continuously on low speed. Also cools and dehumidifies while the compressor is running. Select this setting for quiet cooling operation.

HIGH COOL – Filters and circulates room air with the fan running continuously on high speed. Also cools and dehumidifies while the compressor is running. Select this setting for maximum air circulation and cooling effect.

LOW HEAT – Filters and circulates room air with the fan running continuously on low speed. Also heats while the compressor or electric heat is running. Select this setting for quiet heating operation.

HIGH HEAT – Filters and circulates room air with the fan running continuously on high speed. Also heats while the compressor or electric heater is running. Select this setting for maximum air circulation and heating effect.

FAN ONLY– Select this setting for circulating or exhausting room air without cooling.

Temperature Control
Slide this control to the left for a warmer room temperature, to the right for a cooler room temperature.

Vent Control
Choose one of the following two settings by sliding the vent control under the appropriate marking:

CLOSED – Exhaust damper is closed. Unit circulates and filters room air. This position should be used for normal cooling operation.

EXHAUST – Exhausts room air to the outdoors. Also circulates and filters room air. This position can be used to exhaust stale or smoky air. To conserve energy, it is advised that the Fan Control be in the Fan Only setting when using this feature.

Before Calling For Service

⚠ WARNING

To reduce the risk of electric shock, personal injury, or death, turn the fan control to the off position and remove the unit plug from the wall outlet before doing any inspection or maintenance work.

The following is a list of problems that are sometimes encountered when using a room air conditioner. Possible cause and suggested remedies are given for each problem.

If the problem cannot be fixed using the suggested remedies, see *WHEN SERVICE IS REQUIRED* section.

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
UNIT WILL NOT RUN	No power to the unit.	Set Fan Control to position other than OFF. Make sure plug is firmly held in outlet. Check for blown fuses or tripped circuit breakers.
LITTLE OR NO COOLING LITTLE OR NO HEATING (Fan and compressor runs)	Fresh air of exhaust damper is open. Obstructed indoor or outdoor air flow. Dirty air filters. Unit undersized for application.	Set vent to CLOSED or NORMAL position. Remove obstruction from indoor grille or outdoor louvers. Clean the air filter. See Section VI for details. Check with dealer to determine proper capacity unit for your application.
LITTLE OR NO COOLING LITTLE OR NO HEATING (Only the fan runs)	Temperature Control not properly set.	For cooling, turn Temperature Control to higher number. For heating, turn Temperature Control to lower number.
NOISY UNIT	Loose front of mounting assembly. Weak building construction. Water hitting the fan blade. Unit oversized for application. (Compressor cycles on and off frequently.)	Tighten any loose parts Provide additional support for the unit. Normal in high humidity. Stop noise by removing drain plug or adding a condensate drain. See Section VII. Check with dealer to determine proper capacity unit for application.
MOUNTING SUPPORT NOT INSTALLED	Storm window frame has been installed into window.	Some models require the storm window frame to be removed before installation.
FROST ON INDOOR COIL	Dirty air filer. Normal for low outdoor temperatures.	Clean the air filter. See Section VI for details. Turning the Temperature Control to a lower number will reduce occurrence and duration of frosting condition.
FROST ON OUTDOOR COIL (Heat pump models only)	Normal for outdoor temperatures at or below 45°F	Call for service only if the unit does not heat the room and you have checked all the problems and remedies listed under LITTLE OR NO HEATING in this section.
ODORS IN COOLING	Mold, mildew, or algae formation on wet surfaces.	To reduce growth use algacide tablet in the unit base pan or remove drain plug or add a condensate drain. Have your unit thoroughly cleaned. See Section VI and VII.
ODORS IN HEATING	Normal for first time electric heater is used each season.	Caused by dust accumulation during the warm months. Odor will dissipate quickly with heater use.

When Service is Required

The dealer where you purchased the room air conditioner can give you the name of your nearest Authorized Service Center. Help them give you prompt service by giving them:

1. An accurate description of the trouble.
2. Complete model, serial, and manufacturing numbers located on the serial plate.
3. Proof of purchase (sales receipt on request).

Repair by an unauthorized servicer that results in subsequent failure will void the warranty. Warranty details are contained in the warranty certificate enclosed with your unit.

Keep an accurate record of any service calls; what was done, who serviced the unit, and the date.

Any Questions?

Most of your questions can be answered by your local Amana dealer. Check with your dealer first if you need any further information regarding the operation, maintenance, or service of your unit. Then, if you should have any matters which are not resolved locally, or if you would like information on other heating and cooling products or kitchen appliances offered by Amana - please call us:

CONSUMER INFORMATION LINE
Amana Toll-Free
1-800-843-0304
(Not a technical assistance line for dealers.)

Asure ™ Extended Service Plan

Amana Asure
EXTENDED SERVICE PLAN

Amana is pleased to offer long-term service protection on this new room air conditioner. Asure™ Extended Service Plan is specially designed to supplement Amana's strong warranty. Asure™ provides budget-protecting coverage on room air conditioner for up to five full years and includes parts, labor, and travel charges.

A participating Amana dealer has details or contact:

Amana Appliances
Amana, IA 52204
1-800-528-2682

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